



PATENT

Case Docket No. AUROBIO.026D2D1

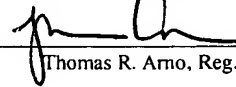
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) : Maher et al.
Appl. No. : 10/771,283
Filed : February 2, 2004
For : HIGH THROUGHPUT
METHOD AND SYSTEM FOR
SCREENING CANDIDATE
COMPOUNDS FOR ACTIVITY
AGAINST TARGET ION
CHANNELS
Examiner : Unassigned
Group Art Unit : Unknown

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on

4/27/04

(Date)



Thomas R. Arno, Reg. No. 40,490


TRANSMITTAL LETTER

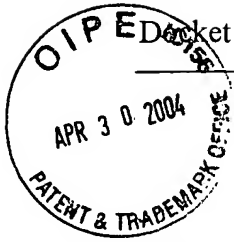
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Enclosed for filing in the above-identified application are:

- (X) An Information Disclosure Statement.
- (X) A PTO Form 1449 with seventy one references.
- (X) Four Office Actions from related cases.
- (X) The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Account No. 11-1410.
- (X) Return prepaid postcard.


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Attorney of Record
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**INFORMATION DISCLOSURE STATEMENT**

Applicant	:	Maher et al.
App. No.	:	10/771,283
Filed	:	February 2, 2004
For	:	HIGH THROUGHPUT METHOD AND SYSTEM FOR SCREENING CANDIDATE COMPOUNDS FOR ACTIVITY AGAINST TARGET ION CHANNELS
Examiner	:	Unassigned
Group Art Unit	:	Unknown

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Enclosed is form PTO-1449 listing seventy one references. 65 of these references are of record in U.S. patent application No. 09/804,580, filed March 12, 2001, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Accordingly, copies of those 65 references are not submitted pursuant to 37 C.F.R. § 1.98(d). Also enclosed are copies of Office Action from related Applications No. 09/804,458, Application No. 09/804,580 and Application No. 09/804,457.

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Filed : February 2, 2004

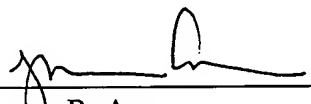
Docket No. AUROBIO.026D2D1
Customer No. 20,995

This Information Disclosure Statement is being filed with an RCE or within three months of the filing date of this application and no fee is required in accordance with 37 C.F.R. § 1.97(b)(1), (b)(2), or (b)(4).

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 4/27/04

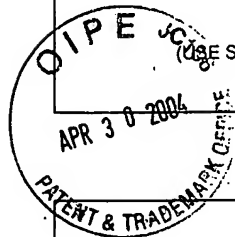
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FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
AUROBIO.026D2D1APPLICATION NO.
10/771,283INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

(USE SEVERAL SHEETS IF NECESSARY)

APPLICANT
Maher, et al.FILING DATE
February 2, 2004GROUP
Unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	1	4,072,578	2/7/78	Cady, et al.			
	2	4,514,500	4/30/85	Giaever, et al.			
	3	4,461,304	7/24/84	Kuperstein			
	4	4,628,933	12/16/86	Michelson			
	5	4,677,989	7/7/87	Robblee			
	6	4,969,468	11/13/90	Byers, et al.			
	7	5,024,233	6/18/91	Chow			
	8	5,178,161	1/12/93	Kovacs			
	9	5,187,096	2/16/93	Giaever, et al.			
	10	5,405,367	4/11/95	Schulman, et al.			
	11	5,432,086	7/11/95	Fränzl, et al.			
	12	5,439,440	8/8/95	Hofmann			
	13	5,545,130	8/13/96	Hofmann, et al.			
	14	5,563,067	10/8/96	Sugihara, et al.			
	15	5,571,158	11/5/96	Bolz, et al.			
	16	5,810,725	9/22/98	Sugihara, et al.			
	17	5,855,801	1/5/99	Lin, et al.			
	18	5,935,155	8/10/99	Humayun, et al.			
	19	5,957,958	9/28/99	Schulman, et al.			
	20	5,965,452	10/12/99	Kovacs			
	21	5,981,268	11/9/99	Kovacs, et al.			
	22	6,008,038	12/28/99	Kröger, et al.			
	23	6,009,347	12/28/99	Hofmann			
	24	6,024,702	2/15/00	Iversen			
	25	6,031,711	2/29/00	Tennent, et al.			
	26	6,038,478	3/14/00	Yuen, et al.			

EXAMINER

DATE CONSIDERED

*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

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	27	6,046,002	4/4/00	Davis, et al.			
	28	6,051,422	4/18/00	Kovacs, et al.			
	29	6,063,260	5/16/00	Olesen, et al.			
	30	6,099,960	8/8/00	Tennent, et al.			
	31	6,205,016	3/20/01	Niu			
	32	6,376,233 B1	4/2002	Wolf et al.			
	33	4,801,543	1/31/1989	Arnold et al.			
	34	5,194,133	3/16/1993	Clark et al.			
	35	5,643,742	7/1/1997	Malin et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	36	WO97/05922	2/20/97	PCT				
	37	WO00/25121	5/4/00	PCT				
	38	WO00/68686	11/16/00	PCT				
	39	1 067 378 A1	1/10/01	EPO				
	40	96/41166	12/19/1996	PCT				

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
	41	Amdts, Oral Presentation Abstract, Second International Cell Analysis Products Users Meeting in Hilton Head Island, South Carolina, USA (June 3-5, 1998).
	42	Barr and Plonsey, Biophys. J. 61, 1164-1175 (1992).
	43	Barr and Plonsey, IEEE 42, 1185-11911 (1995).
	44	Cartee and Plonsey, Med & Biol. Eng. & Comp. 30 389-398 (1992).
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	46	Eppich et al., Nature Biotech. 18, 882-887 (2000).
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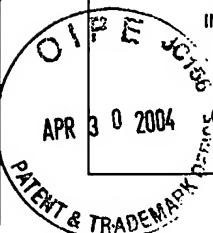
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EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
	48	Gross, et al. Biophys. J. 50, 339-348 (1986).
	49	Jentsch and Günther, BioEssays 19, 117-126 (1997).
	50	Klee and Plonsey, Biophys. J. 12 1661-1675 (1972).
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	52	Mitchell et al., J. Biomed. Eng. 14, 52-56 (1992).
	53	Plonsey, Med & Biol. Eng. & Comput. 19 311-315 (1981).
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	57	Rattay, Neuroscience 89 335-346 (1999).
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	61	Stone et al., J. Cardiovascular Electrophysiology 10 92-107 (1999).
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	65	Zhou, et al., Circulation Research 83 1003-1014 (1998).
	66	González, J.E., et al., "Cell-based assays and instrumentation for screening ion-channel targets", Drug Discover Today, Vol. 4, No. 9, pp. 431-439, (September 1999).
	67	González, J.E., et al., "Voltage sensing by fluorescence resonance energy transfer in single cells", Biophysical Journal, Vol. 69, No. 4, pp. 1272-1280, (October 1995).
	68	Giuliano, K.A., et al., "Fluorescent-protein biosensors: new tools for drug discovery", Trends In Biotechnology", Vol. 16, No. 3, pp. 135-140, (March 1998).
	69	Jacobs et al., "Control of Action Potential-Induced Ca ²⁺ Signaling in the Soma of Hippocampal Neurons by Ca ²⁺ Release from Intracellular Stores", (1997) Journal of Neuroscience 17(11):4129-4135.
	70	Reiner et al., "Use of a Membrane Potential -Sensitive Probe to Assess Biological Expression of the Cystic Fibrosis Transmembrane Conductance Regulator" (1995) Human Gene Therapy 6:1275-1283.
	71	Sinha et al., "Simultaneous Optical Recording of Evoked and Spontaneous Transients of Membrane Potential and Intracellular Calcium Concentration with High Spatio-Temporal Resolution" (1995) Journal of Neuroscience Methods 60:49-60

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